

Title (en)  
INDUSTRIAL FABRIC INCLUDING SPIRALLY WOUND MATERIAL STRIPS WITH REINFORCEMENT

Title (de)  
TECHNISCHES GEWEBE MIT SPIRALFÖRMIG GEWICKELTEN MATERIALBAHNEN MIT VERSTÄRKUNG

Title (fr)  
TISSU INDUSTRIEL COMPORTANT DES BANDES DE MATÉRIAU ENROULÉES EN SPIRALE AVEC RENFORT

Publication  
**EP 2847380 B1 20180725 (EN)**

Application  
**EP 13725002 A 20130509**

Priority  
• US 201213469994 A 20120511  
• US 2013040360 W 20130509

Abstract (en)  
[origin: WO2013170038A1] An industrial fabric, belt or sleeve and a method of making the fabric, belt or sleeve are disclosed. The industrial fabric, belt or sleeve is produced by spirally winding strips (16) of polymeric material, such as an industrial strapping or ribbon material, and joining the adjoining sides of the strips (16) of material using ultrasonic welding or laser welding techniques. The fabric, belt or sleeve may then be perforated using a suitable technique to make it permeable to air and/or water.

IPC 8 full level  
**D21F 1/00** (2006.01); **D21F 3/02** (2006.01); **D21F 7/08** (2006.01)

CPC (source: CN EP KR RU)  
**D21F 1/00** (2013.01 - KR RU); **D21F 1/0072** (2013.01 - CN EP); **D21F 1/0081** (2013.01 - CN EP); **D21F 3/02** (2013.01 - KR); **D21F 3/0227** (2013.01 - CN EP); **D21F 7/08** (2013.01 - CN EP KR); **D21F 7/086** (2013.01 - CN EP)

Citation (opposition)  
Opponent : Voith Patent GmbH  
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• DE 102009037834 A1 20110303 - SILU VERWALTUNG AG [CH]  
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• DE 29923825 U1 20010405 - SCHAEFER KG GUMMIWALZENFABRIK [DE]  
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• US 201213469994 A  
• "Faserverbund-Kunststoffe", 2006, article GOTTFRIED W. EHRENSTEIN, pages: 19 - 42, XP055584874  
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• "TEMPERATURE DEPENDENCE OF THE MECHANICAL PROPERTIES OF POLYMERS OF DIFFERENT CHEMICAL STRUCTURE IN THE TEMPERATURE RANGE FROM 4.2 TO 300 K", POLYMER MECHANICS, vol. 13, no. 3, May 1977 (1977-05-01), pages 333 - 334, XP055584887

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2013170038 A1 20131114**; BR 112014027987 A2 20170627; CA 2872925 A1 20131114; CA 2872925 C 20190625; CN 104395523 A 20150304; EP 2847380 A1 20150318; EP 2847380 B1 20180725; EP 2847380 B2 20220302; ES 2691076 T3 20181123; ES 2691076 T5 20220531; IN 2268MUN2014 A 20150724; JP 2015519487 A 20150709; JP 2019135100 A 20190815; KR 20150020194 A 20150225; KR 20180056812 A 20180529; MX 2014013731 A 20150910; MX 346893 B 20170404; PL 2847380 T3 20181231; PL 2847380 T5 20220725; RU 2014144737 A 20160710; RU 2633267 C2 20171011; TW 201400718 A 20140101; TW I653405 B 20190311

DOCDB simple family (application)  
**US 2013040360 W 20130509**; BR 112014027987 A 20130509; CA 2872925 A 20130509; CN 201380033648 A 20130509; EP 13725002 A 20130509; ES 13725002 T 20130509; IN 2268MUN2014 A 20141110; JP 2015511705 A 20130509; JP 2019046857 A 20190314; KR 20147034750 A 20130509; KR 20187014292 A 20130509; MX 2014013731 A 20130509; PL 13725002 T 20130509; RU 2014144737 A 20130509; TW 102116673 A 20130510